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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/774,882	02/09/2004	Kevin Kwong-Tai Chung	AI-TECH-16B	8813	
110	7590 12/30/2004		EXAM	INER	
DANN, DORFMAN, HERRELL & SKILLMAN 1601 MARKET STREET			DINH, T	DINH, TUAN T	
SUITE 2400 PHILADELPHIA, PA 19103-2307			ART UNIT	PAPER NUMBER	
			2841		
•		DATE MAILED: 12/30/2004	DATE MAILED: 12/30/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Ameliandes				
	Application No.	Applicant(s)				
Office Action Summary	10/774,882	CHUNG, KEVIN KWONG-TAI				
·	Examiner	Art Unit				
The MAILING DATE of this communication and	Tuan T Dinh	2841				
The MAILING DATE of this communication app Period for Reply	ears on the cover sneet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was a Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	rely filed s will be considered timely. the mailing date of this communication.				
Status	•	•				
1) Responsive to communication(s) filed on 09/24	<u>/04</u> .					
2a) ☐ This action is FINAL . 2b) ☐ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-23 is/are pending in the application.						
4a) Of the above claim(s) <u>17-20</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-16 and 21-23 are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign ¡	oriority under 35 U.S.C. & 119(a).	.(d) or (f)				
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3.☐ Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
•						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Dat 5) Notice of Informal Pa					
Paper No(s)/Mail Date	6) Other:	түрнөдиөн (F 10-104)				

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DETAILED ACTION

Applicant's election with traverse of Group I (claims 1-16, and add new claims 21-23) in 09/23/04 is acknowledged. The traversal is on the ground(s) that "the search for the product claims would be likely similar and disclosed the search for the method claims. This is not found persuasive because the method claims (claims 17-20) would be classified and searched in a different class than the product claims (claims 1-16), the product can be made without or different step of plating process, for example, a plurality of conductive vias of the product claims can be made by etching, electroless plating, CVD, or PVD instead of using plating process to form on the conductive vias.

Therefore, claims 17-20 are withdrawn from further consideration as being drawn to non-elected subject matter.

After review of the application's election, a further restriction of the elected claimed invention is as following:

The elected claims contain claims 1-16 direct to the following patentability distinct species of the claimed invention:

- Specie 1 Figure 1, a semiconductor chip is directly connected to contacts of an interposer by interconnections.
- Specie 2 Figure 2, a semiconductor chip is connected to contact of an interposer by bond wires.

If applicant elects one of the Species 1 or 2, then the sub-Specie should be follow described as below:

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Specie I Figure 3A.

Specie II Figure 3B.

Specie III Figure 5.

Specie IV Figure 6.

Specie V Figures 8A-8B.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims are not generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over

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the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

A telephone call was made to Mr. Clement A. Bernard (Reg. No. 29, 613) on December 15, 2004 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T Dinh whose telephone number is 571-272-1929. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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